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ANNOTATED TABLE OF CONTENTS FOR
VESTNIK VOZDUSHNOGO FLOTA (HERALD OF THE AIR FLEET)

1. "Military Oath -- Code of Life of the Soviet Soldier:"

Page

1

Describes obligations of Soviet Armed Forces to country and people. Stresses importance of political education, furtherance of skill in use of weapons, development of new aviation techniques, and vigilance. Gives examples of heroic exploits of various individuals in World War II and of their efforts to advance themselves and to live up to the military oath they had taken.

2. Stefanovskiy, P., General-mayor of Aviation, Hero of Soviet Union; Bolotnikov, V., Major-Col, Cand in Tech Sci, Docent

"I. Russian Aviators -- Founders of Acrobatic Flying"

7

Brief general review of progress of acrobatic flying in Soviet Union from 1913 to start of World War II. Mentions various outstanding Soviet Pilots for efforts in this field. States that maneuverability of planes and gliders was developed with a view to use in military action. Foreign countries manufactured special aircraft for acrobatic flying, which were of no practical use because training in them could not be applied to heavier fighter planes.

- 1 -

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CONFIDENTIAL

50X1-HUM

Page

3. Babayev, N.

"Soviet Model-Airplane Builders"

15

Stresses importance of model building as excellent background for future aviators and aircraft designers and builders. Gives brief history of experimentation with kites and model aircraft in Russia since 1754. Aeronautical model groups started to appear in 1909, but actual organization on a wide scale was not undertaken by the Soviet state until after the October Revolution. In 1923 the Society of Friends of the Air Fleet (OLVF) was organized. Many international records for model aeronautical engineering have been set by Soviet model builders.

4. Chumakov, B., Lt Col

"Leading Groups of Stormovik Attack Planes to Inconspicuous Targets"

21

Describes detailed preparations involved in planning and finding an inconspicuous target. Gives example with diagrams and formulas of flight to a target. Also gives examples of proper approach of fighter group to target as well as alternatives in the event the target is by-passed.

5. Kochnev, V., Guards Lt Col

"Particulars of Instructing Flying Personnel During Intervals Between Flights"

27

Discusses need for training between flights to keep fliers in shape. Mentions different types of training, including physical training and actual practice in planes and on ground.

6. Chir'yev, V., Guards Lt Col

"Analysis of Bombing With Stormovik Attack Bombers"

31

Analyses accuracy of bombing a target and various errors and factors bearing on accuracy of bombing, such as wind direction and velocity, speed of flight, moment of release of bomb, etc. Stresses analysis of errors as means of avoiding future mistakes. Several diagrams illustrate various factors involved.

7. Kunitat'y, R., Engr-Col, Dr of Phys-Math Sci, Prof

37

"Some Problems of Celestial Navigation"

Discusses necessity of knowing and using methods of

- 2 -

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

50X1-HUM

Page

celestial navigation. States that although radar has come into wide use, celestial navigation is essential because it is entirely independent of contact with ground stations and of distance and duration of flight. Also discusses ways of shortening calculation of astronomic RM /designated point/ and mentions various factors which must be considered in its calculation. Emphasizes need for air navigation methods to advance in accordance with improvements in aviation techniques.

8. Shtal', V., Docent, Cand in Geog Sci, Engr-Col;
Kogan-Beletskiy, G., Guards Engr-Col

"Compilation of Aeroclimatic Reports and Data"

41

Describes methods of compiling aeroclimatic data which is very important in aviation, and gives some practical recommendations to weather-service experts dealing with this subject. States that so far there has been no standard method of compilation. Includes model format for data necessary in describing atmospheric conditions in a given region and in drawing monthly conclusions from weather observations.

9. Zhovinskiy, N., Cand in Tech Sci, Engr-Col;
Eravets, A., Cand in Tech Sci, Engr-Lt Col

"The Purpose of Turbojet Automatic Regulators"

47

Article is written in the form of a brief class study of TKVRD /turbojet/ automatic regulators and covers: control of regulated fuel feed; control of turbojet with an axle compressor and an automatic discharge duct regulator; relation of number of revolutions to gas temperature in the turbojet; regulation of gas temperature before the turbojet turbine; coordination of automatic regulators during change of speed and altitude of flight; displacement of the discharge duct during an alteration in revolutions; and regulation of the performance of a turbojet with centrifugal compressor. Includes several diagrams.

10. Zholod, A., Sr Lt

"Method of Teaching the Theory of Deviation"

53

Emphasizes need of studying magnetic compass navigation, even though radio is now widely used in air navigation. Describes deviations resulting from influence of steel airplane parts on magnetic compass and calculations to compensate for them with diagrams and formulas.

- 3 -

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

50X1-HUM

11. Tunkin, V., Engr-Capt

Page

"Technical Maintenance and Operation of Oxygen Equipment"

58

Describes various types of oxygen equipment used in aviation and proper maintenance and examination of equipment before flight. Discusses in detail how to estimate oxygen supply and gives examples of formulas and calculations used. Also discusses use of oxygen apparatus in high-altitude flying. Stresses idea that basic care of oxygen equipment is a safety guarantee for the lives of flight personnel and allows Air Force Aircraft to use tactical flight data more effectively.

12. "New Books on Aviation"

62

Reviews very briefly the following books published in 1948:

Tunatar, I. Ya., Aerology (Air Meteorology)

Samov, P. I.; Chernyak, E. V., Aviation Fuels Oils and Coolants

Goroshenko, B. F.; Zhukov, A. Ya.; Mikirtumov, E. V.; Fedorov, G. N., Problem Book on Aircraft Aerodynamics, Part III

Gordiyev, G. N., Air Radio Navigation in Problems (Handbook for Flying Personnel)

Okhotin, M. M., Repair of Aeroengine Pistons

Datamin, N. V.; Laseyev, S. I.; Popov, Ye. F.; Course in Theoretical Mechanics, Part II, Dynamics

Kuraev, N. A., V-2 Aviation Sergeant

Platonov, K.; Shvarts, L., Outline of Psychology for Fliers.

13. "Aviation Calendar"

Describes first flight along Northern Sea Route, 19 September 1936, and Artsaulov's spin, 24 September 1916, the first airplane spin in history.

- E N D -

- 4 -

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